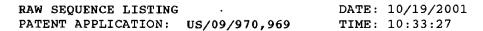


DATE: 10/19/2001 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/970,969 TIME: 10:33:27

Input Set : A:\PTO VSK.txt

Output Set: N:\CRF3\10192001\I970969.raw

```
3 <110> APPLICANT: Tait, Jonathan F.
             Brown, David S.
     9 <120> TITLE OF INVENTION: Annexin Derivatives with Endogenous Chelation Sites
    13 <130> FILE REFERENCE: uofw-1-13841
C--> 17 <140> CURRENT APPLICATION NUMBER: US/09/970,969
C--> 19 <141> CURRENT FILING DATE: 2001-10-03
     23 <160> NUMBER OF SEQ ID NOS: 6
    27 <170> SOFTWARE: PatentIn Ver. 2.0
    31 <210> SEQ ID NO: 1
    33 <211> LENGTH: 981
                                                            ENTERED
    35 <212> TYPE: DNA
    37 <213> ORGANISM: Homo sapiens
    41 <220> FEATURE:
    43 <221> NAME/KEY: CDS
    45 <222> LOCATION: (1)..(981)
    49 <400> SEQUENCE: 1
    51 atg gca tgt ggc ggt ggc cat atg gca cag gtt ctc aga ggc act gtg
    53 Met Ala Cys Gly Gly His Met Ala Gln Val Leu Arg Gly Thr Val
    59 act gac ttc cct gga ttt gat gag cgg gct gat gca gaa act ctt cgg
    61 Thr Asp Phe Pro Gly Phe Asp Glu Arg Ala Asp Ala Glu Thr Leu Arg
    63
                    20
    67 aag gct atg aaa ggc ttg ggc aca gat gag gag agc atc ctg act ctg
    69 Lys Ala Met Lys Gly Leu Gly Thr Asp Glu Glu Ser Ile Leu Thr Leu
    75 ttg aca tcc cga agt aat gct cag cgc cag gaa atc tct gca gct ttt
    77 Leu Thr Ser Arg Ser Asn Ala Gln Arg Gln Glu Ile Ser Ala Ala Phe
    83 aag act ctg ttt ggc agg gat ctt ctg gat gac ctg aaa tca gaa cta
    85 Lys Thr Leu Phe Gly Arg Asp Leu Leu Asp Asp Leu Lys Ser Glu Leu
                            70
    91 act gga aaa ttt gaa aaa tta att gtg gct ctg atg aaa ccc tct cgg
    93 Thr Gly Lys Phe Glu Lys Leu Ile Val Ala Leu Met Lys Pro Ser Arg
    99 ctt tat gat gct tat gaa ctg aaa cat gcc ttg aag gga gct gga aca
    101 Leu Tyr Asp Ala Tyr Glu Leu Lys His Ala Leu Lys Gly Ala Gly Thr
                                        105
                    100
    107 aat gaa aaa gta ctg aca gaa att att gct tca agg aca cct gaa gaa
                                                                           384
    109 Asn Glu Lys Val Leu Thr Glu Ile Ile Ala Ser Arg Thr Pro Glu Glu
                115
                                    120
                                                         125
                                                                           432
    115 ctg aga gcc atc aaa caa gtt tat gaa gaa gaa tat ggc tca agc ctg
    117 Leu Arg Ala Ile Lys Gln Val Tyr Glu Glu Glu Tyr Gly Ser Ser Leu
                                135
    123 gaa gat gac gtg gtg ggg gac act tca ggg tac tac cag cgg atg ttg
                                                                           480
    125 Glu Asp Asp 'Val Val Gly Asp Thr Ser Gly Tyr Tyr Gln Arg Met Leu
    127 145
                             150
                                                 155
    131 gtg gtt ctc ctt cag gct aac aga gac cct gat gct gga att gat gaa
                                                                           528
```



Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\10192001\1970969.raw

			_	_	01		_	_	_	_	_		a 1	- 1	_	~ 3	
	Val	vai	Leu	Leu		.Ala	Asn	Arg	Asp		Asp	Ala	GLĀ	11e	_	Glu	
135	~~+	a aa	~++	~~~	165	~ a +	a a t	a > a	a a t	170	+++	a > a	aat	~~~	175	a++	576
	_		_	-		gat Asp	-	_	_			_					3/6
143	MIG	GIII	Val	180	GIII	дор	пта	GIII	185	пеп	rne	GIII	та	190	Gru	пеа	
	222	taa	aaa		σat	gaa	αaa	аал		atc	acc	atc	+++		aca	спа	624
					_	Glu	_	_								_	024
151	цуз	115	195	1111	nsp	GIU	Olu	200	1110	110	1111	110	205	GLY	1111	ni 9	
	aσt	ata		cat	tta	aga	aaα		+++	gac	aaσ	tac		act	ata	tca	672
	_				_	Arg	_			_	_		_				0,2
159	501	210	501			9	215			P	11, 1	220					
	σσα		caa	att	σασ	gaa		att	σac	cac	σασ		tct	aac	aat	tta	720
						Glu			_	-							
	225					230				5	235			1		240	
		caa	cta	ctc	ctt	gct	gtt	qtq	aaa	tct	att	cqa	aqt	ata	cct	qcc	768
						Āla	-					_					
175					245				•	250		_			255		
	tac	ctt	qca	gag	acc	ctc	tat	tat	gct	atg	aag	gga	gct	ggg	aca	gat	816
			_			Leu			-	_	_		_			_	
183				260			_	_	265		-	_		270		_	
187	gat	cat	acc	ctc	atc	aga	gtc	atg	gtt	tcc	agg	agt	gag	att	gat	ctg	864
189	Asp	His	Thr	Leu	Ile	Arg	Val	Met	Val	Ser	Arg	Ser	Glu	Ile	Asp	Leu	
191			275					280					285				
195	ttt	aac	atc	agg	aag	gag	ttt	agg	aag	aat	ttt	gcc	acc	tct	ctt	tat	912
197	Phe	Asn	Ile	Arg	Lys	Glu	Phe	Arg	Lys	Asn	Phe	Ala	Thr	Ser	Leu	Tyr	
199		290					295					300					
		_		_		gat				_		_		-		-	960
205	Ser	Met	Ile	Lys	Gly	Asp	Thr	Ser	Gly	Asp	_	Lys	Lys	Ala	Leu		
207	305					310					315					320	
	-				_	gat	_										981
	Leu	Leu	Ser	Gly		Asp	Asp										
215					325												
)> SE															
		L> LE			27												
		2> TY			••												
					Homo sapiens												
)> SE				~1	TT d a	Mat	31.	~1 <u>~</u>	17-1	T	3	~1··	/III h see	37 - 3	
235		Ala	Cys	GIY		Gly	HIS	Met	Ата		vaı	ьeu	Arg	GIY	15	var.	
	1 mb=	A a n	Dho	Dwo	5	Dho	7 00	C1	A ~~	10	200	21-	C111	Пhъ		7 ~~	
241	TIIL	ASP	rne	20	GLY	Phe	ASP	GIU	25	Ald	ASP	Ald	GIU	30	Leu	AIG	
	Larc	λlo	Mat		Clv	Leu	Clv	Thr		c1v	Cl u	9 07	Tla		Thr	LAU	
247	шуз	Ala	35	шуз	СТУ	пец	Gry	40	пор	GIU	GIU	261	45	пеп	T11T	пеп	
	T.eu	Ψhr		Ara	Ser	Asn	Δla		Δra	Gln	Glu	Tle		Δla	λla	Phe	
253	~~ u	50	501	9	JUL		55	U 111	*** 9	Q 2 11	U 1 U	60	501	1114	1114	2 1.10	
	Lvs		Len	Phe	Glv	Arg		Len	Len	Asp	Asp		Lvs	Ser	Glu	Leu	
259	65				~ + 1	70					75		_10	001	014	80	
		G] v	Lvs	Phe	Glu	Lys	Leu	Ile	Val	A)a		Met	Lvs	Pro	Ser		
265		1	-10		85	-1-				90			-1-		95	5	

RAW SEQUENCE LISTING DATE: 10/19/2001 PATENT APPLICATION: US/09/970,969 TIME: 10:33:27

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\10192001\1970969.raw

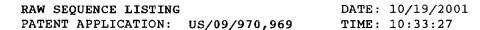
269	Leu	Tyr	Asp	Ala	Tyr	Glu	Leu	Lys	His	Ala	Leu	Lys	Gly	Ala	Gly	Thr	
271		_	_	100	_			_	105			_	_	110	_		
275 277	Asn	Glu	Lys 115	Val	Leu	Thr	Glu	Ile 120	Ile	Ala	Ser	Arg	Thr 125	Pro	Glu	Glu	
281 283	Leu	Arg 130	Ala	Ile	Lys	Gln	Val 135	Tyr	Glu	Glu	Glu	Tyr 140	Gly	Ser	Ser	Leu	
	Glu	Asp	Asp	Val	Val	Gly	Asp	Thr	Ser	Gly	Tyr	Tyr	Gln	Arg	Met	Leu	
289	145					150					155					160	
	Val	Val	Leu	Leu	Gln	Ala	Asn	Arg	Asp		Asp	Ala	Gly	Ile	Asp	Glu	
295		_	_		165					170					175		
	Ala	Gln	Val		Gln	Asp	Ala	Gln		Leu	Phe	Gln	Ala		Glu	Leu	
301			a 3	180		a 1	a 1	-	185	-1 -	m1	. 44 1	D1	190	m1	3	
	гÃг	rrp	_	Thr	Asp	Glu	GIU	ьуs 200	Pne	ше	Thr	ire	205	GIY	Tur	Arg	
307	Sor	37 n 1	195	uic	Len	Arg	Tarc		Dha	N c m	T 376	Пиг		Thr	Tla	Sar	
313	261	210	261	птэ	Deu	AIG	215	vai	FILE	АЗЪ	цуз	220	Mec	1111	116	261	
	Glv		Gln	Tle	Glu	Glu		Tle	Asp	Arσ	Glu		Ser	Glv	Asn	Leu	
	225	1110	01			230				5	235			1		240	
		Gln	Leu	Leu	Leu	Ala	Val	Val	Lvs	Ser		Arq	Ser	Ile	Pro		
325					245				-	250		-			255		
329	Tyr	Leu	Ala	Glu	Thr	Leu	Tyr	Tyr	Ala	Met	Lys	Gly	Ala	Gly	Thr	Asp	
331	_			260			_	_	265					270			
335	Asp	His	Thr	Leu	Ile	Arg	Val	Met	Val	Ser	Arg	Ser	Glu	Ile	Asp	Leu	
337			275					280					285				
341	Phe	Asn	Ile	Arg	Lys	Glu	Phe	Arg	Lys	Asn	Phe	Ala	Thr	Ser	Leu	${ t Tyr}$	
343		290					295					300					
		Met	Ile	Lys	Gly	Asp	Thr	Ser	Gly	Asp		Lys	Lys	Ala	Leu		
	305			_	_	310					315					320	
	Leu	Leu	Ser	Gly		Asp	Asp										
355	-01/). ar	30 T		325												
	<210																
	<211 <212				37												
					Home	o sap	niana										
	<220				HOM	Jag	71.011	•									
	<221				CDS												
			-			(98	31)										
	<400					(= .	- ,										-
						ggc	cat	atg	gca	cag	gtt	ctc	aga	ggc	act	gtg	48
						Gly											
385	1		_	_	5	_				10			_	_	15		
389	act	gac	ttc	cct	gga	ttt	gat	gag	cgg	gct	gat	gca	gaa	act	ctt	cgg	96
	Thr	Asp	Phe	Pro	Gly	Phe	Asp	Glu	Arg	Ala	Asp	Ala	Glu	Thr	Leu	Arg	
393				20					25					30			
						ttg											144
	Lys	Ala		Lys	Gly	Leu	Gly		Asp	Glu	Glu	Ser		Leu	Thr	Leu	
401			. 35					40					4.5				
						aat											192
40/	ьeu	Thr	ser	arg	ser	Asn	АІА	GIn	Arg	GIn	GIU	тте	ser	Ата	Ala	rne	

RAW SEQUENCE LISTING DATE: 10/19/2001 PATENT APPLICATION: US/09/970,969 TIME: 10:33:27

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\10192001\I970969.raw

409 50 55 60	
413 aag act ctg ttt ggc agg gat ctt ctg gat gac ctg a	aa tca gaa cta 240
415 Lys Thr Leu Phe Gly Arg Asp Leu Leu Asp Asp Leu I	ys Ser Glu Leu
417 65 70 75	80
421 act gga aaa ttt gaa aaa tta att gtg gct ctg atg a	aa ccc tct cgg 288
423 Thr Gly Lys Phe Glu Lys Leu Ile Val Ala Leu Met I	ys Pro Ser Arg
425 85 90	95
429 ctt tat gat gct tat gaa ctg aaa cat gcc ttg aag g	ga gct gga aca 336
431 Leu Tyr Asp Ala Tyr Glu Leu Lys His Ala Leu Lys G	ly Ala Gly Thr
433 100 105	110
437 aat gaa aaa gta ctg aca gaa att att gct tca agg a	
439 Asn Glu Lys Val Leu Thr Glu Ile Ile Ala Ser Arg	
	25
445 ctg aga gcc atc aaa caa gtt tat gaa gaa gaa tat g	
447 Leu Arg Ala Ile Lys Gln Val Tyr Glu Glu Glu Tyr G	ly Ser Ser Leu
449 130 135 140	
453 gaa gat gac gtg gtg ggg gac act tca ggg tac tac c	
455 Glu Asp Asp Val Val Gly Asp Thr Ser Gly Tyr Tyr C	_
457 145 150 155	160
461 gtg gtt ctc ctt cag gct aac aga gac cct gat gct g	
463 Val Val Leu Leu Gln Ala Asn Arg Asp Pro Asp Ala G	
465 165 170	175
469 gct caa gtt gaa caa gat gct cag gct tta ttt cag g	
471 Ala Gln Val Glu Gln Asp Ala Gln Ala Leu Phe Gln A	
473 180 185	190
477 aaa tgg ggg aca gat gaa gaa aag ttt atc acc atc t	
479 Lys Trp Gly Thr Asp Glu Glu Lys Phe Ile Thr Ile E	
	05
485 agt gtg tct cat ttg aga aag gtg ttt gac aag tac a	
487 Ser Val Ser His Leu Arg Lys Val Phe Asp Lys Tyr N 489 210 215 220	et illi ile sei
493 gga ttt caa att gag gaa acc att gac cgc gag act t	ct ggc aat tta 720
495 Gly Phe Gln Ile Glu Glu Thr Ile Asp Arg Glu Thr S	2.2
497 225 230 235	240
501 gag caa cta ctc ctt gct gtt gtg aaa tct att cga a	
503 Glu Gln Leu Leu Ala Val Val Lys Ser Ile Arg S	- · · · · · · · · · · · · · · · · · · ·
505 245 250	255
509 tac ctt gca gag acc ctc tat tat gct atg aag gga	
511 Tyr Leu Ala Glu Thr Leu Tyr Tyr Ala Met Lys Gly A	
513 260 265	
517 gat cat acc ctc atc aga gtc atg gtt tcc agg agt g	ag att gat ctg 864
519 Asp His Thr Leu Ile Arg Val Met Val Ser Arg Ser G	
	85
525 ttt aac atc agg aag gag ttt agg aag aat ttt gcc a	cc tct ctt tat 912
527 Phe Asn Ile Arg Lys Glu Phe Arg Lys Asn Phe Ala T	
529 290 295 300	-
533 tcc atg att aag gga gat aca tct ggg gac tat aag a	aa gct ctt ctg 960
535 Ser Met Ile Lys Gly Asp Thr Ser Gly Asp Tyr Lys I	
537 305 310 315	320



Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\10192001\1970969.raw

543 Leu Leu Ser Gly Glu Asp Asp 545 3210 SEQ ID NO: 4 553 <2112	C 4 1	_+~	~+~	+	~~~		~~+											001
545						_												901
551 < 210		ьeu	ьеи	ser	GIY		Asp	Asp										
553 <211> LENGTH: 327 555 <212> TYPE: PRT 557 <213> ORGANISM: Homo sapiens 561 <400> SEQUENCE: 4 563 Met Ala Gly Gly Cys Gly His Met Ala Gln Val Leu Arg Gly Thr Val 565 1 5 70 15 15 10 15 10 15 569 Thr Asp Phe Pro Gly Phe Asp Glu Arg Ala Asp Ala Glu Thr Leu Arg 571 20 30 575 Lys Ala Met Lys Gly Leu Gly Thr Asp Glu Glu Fre Leu Thr Leu 577 35 40 45 581 Leu Thr Ser Arg Ser Asn Ala Gln Arg Gln Glu Tle Ser Ala Ala Phe 583 50 60 587 Lys Thr Leu Phe Gly Arg Asp Leu 689 65 70 70 75 80 593 Thr Gly Lys Phe Glu Lys Leu Tle Val Ala Leu Met Lys Pro Ser Arg 593 Thr Gly Lys Phe Glu Lys Leu Tle Val Ala Leu Lys Gly Ala Gly Thr 601 100 100 100 605 Asn Glu Lys Val Leu Thr Glu Ile Ile Ala Ser Arg Thr Pro Glu Glu 606 60 607 115 610 Leu Arg Ala 11e Lys Gln Val 611 Leu Arg Ala 12e Lys Gln Val 612 120 613 130 135 617 Glu Asp Asp Val Val Gly Asp Thr 618 140 140 155 619 145 610 155 610 160 170 175 611 Leu Arg Ala 11e Lys Gln Val 617 157 618 Asp Asp Val Val Gly Asp Thr 619 145 610 160 170 175 611 Leu Arg Ala 11e Lys Gln Val 617 160 175 618 Asp Asp Val Val Gly Asp Thr 619 145 610 160 175 611 Leu Arg Ala 11e Lys Gln Val 617 160 175 618 Asp Asp Val Val Gly Asp Thr 619 145 610 160 175 611 Leu Arg Ala 11e Lys Gln Val 610 170 611 Leu Arg Ala 11e Lys Gln Val 611 160 175 612 Ala Gln Val Glu Gln Ala Asn Arg Asp Pro Asp Ala Gly Ile Asp Glu 613 130 130 614 Glu Asp Asp Val Val Glu Glu Lys Phe Ile Thr Ile Phe Gly Thr Arg 616 170 175 617 175 618 180 180 180 180 180 180 180 180 180 1			a															
S55																		
S57						2 /												
561																,		
563 Met Ala Gly Gly Gly Pis Ala Ala Ala Ala Ala Gly Th Val Val Leu Gly Phe Asp Glu Arg Ala Asp Ala Asp Ala Met Leu Arg Phe Asp Ala Asp Ala Asp Ala Asp Ile Leu Thr Leu Arg Asp Asp Asp Ala Asp Ala Asp							-											
See							_			_	_	_			_			
569 Thr Asp Phe Pro Gly Phe Asp Glu Arg Ala Ala Glu Thr Leu Arg Ala Ala Glu Leu Thr Leu Arg Ala Glu Glu Ser Ile Leu Thr Leu Arg Ser Ala Glu Glu Ser Ile Leu Thr Leu Arg Ser Ile Leu Phe Glu Arg Ang Leu Arg Glu Leu Arg Arg Arg <td></td> <td></td> <td>Ala</td> <td>Gly</td> <td>Gly</td> <td>_</td> <td>Gly</td> <td>His</td> <td>Met</td> <td>Ala</td> <td></td> <td>Val</td> <td>Leu</td> <td>Arg</td> <td>Gly</td> <td></td> <td>Val</td> <td></td>			Ala	Gly	Gly	_	Gly	His	Met	Ala		Val	Leu	Arg	Gly		Val	
571						_												
Style Styl		Thr	Asp	Phe		Gly	Phe	Asp	Glu	_	Ala	Asp	Ala	Glu		Leu	Arg	
577 35																		
581 Leu Thr Ser Arg Ser Asp Ala Glu Ile Ser Ala Ala Phe 55		Lys	Ala		Lys	Gly	Leu	Gly		Asp	Glu	Glu	Ser		Leu	Thr	Leu	
583 Lys Thr Leu Phe Gly Arg Asp Leu Leu Lys Ceu Leu Lys Ceu Leu Leu Lys Glu Leu Bo Glu Leu Bo Glu Leu Lou Leu Asp Asp Leu Lys His Ala Leu Lys Glu Leu Lys His Ala Leu Lys Lys His Leu Lys Lys His																		
587 Lys Thr Leu Phe Gly Arg Arg Leu Asp Leu Lys Lys Glu Leu Ro 593 Thr Gly Lys Phe Glu Lys Leu Ileu Met Lys Pro Ser Arg 599 Leu Tyr Asp Ala Tyr Glu Lys Val Euu Lys Hus Leu Lys Hus Lys Hus Lys Hus Hus Lys Hus Hus Tyr Hus Gly Ang Ala Gly Thr Glu Leu Hus Tyr Glu Leu Hus		Leu	Thr	Ser	Arg	Ser	Asn		Gln	Arg	Gln	Glu		Ser	Ala	Ala	Phe	
589 65 Factoring Total Total Lys Phe Glu Lys Leu Ile Val Ala Leu Met Lys Pro Ser Arg 95 Pro 95 95 Pro 95 95 95 Pro 95 95 Pro 95 96 95																		
593 Thr Gly Lys Phe Gly Lys Leu Ile Val Ala Leu Lys Pho 95 110 100 100 100 110		_	Thr	Leu	Phe	Gly	Arg	Asp	Leu	Leu	Asp	Asp	Leu	Lys	Ser	Glu		
595 Leu Tyr Asp Ala Tyr Glu Leu Lys His Ala Leu Lys Glu Lys Glu Lys Gly Thr Gly Thr Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Thr Ala Gly Thr Ala <td></td>																		
599 Lew Tyr Asp Ala Tyr Glu Lew Lys His Ala Lew Lys Ala Lew Thr 100 Lys His Ala Lew Lys Ala Cly Thr Ala Lew 110 Thr Ala Ile Ile Ile Ala Ser Arg Thr Pro Glu Ala Ile Ile Ile Ile Ala Ile Ile <td></td> <td>Thr</td> <td>Gly</td> <td>Lys</td> <td>Phe</td> <td>Glu</td> <td>Lys</td> <td>Leu</td> <td>Ile</td> <td>Val</td> <td>Ala</td> <td>Leu</td> <td>Met</td> <td>Lys</td> <td>Pro</td> <td>Ser</td> <td>Arg</td> <td></td>		Thr	Gly	Lys	Phe	Glu	Lys	Leu	Ile	Val	Ala	Leu	Met	Lys	Pro	Ser	Arg	
601 Fig. 100 Fig.																		
605 Asn Glu Lys Val Leu Thr Glu I10 110 110 110 110 110 120 120 120 120 1		Leu	\mathtt{Tyr}	Asp	Ala	Tyr	Glu	Leu	Lys	His	Ala	Leu	Lys	Gly	Ala	Gly	${ t Thr}$	
607 115 120 120 125 120 125 120 125 120 140																		
611 Leu Arg Ala Ile Lys Gln Val Tyr Glu Glu Glu Tyr Gly Gly Gly Gly Leu 135	605	Asn	Glu	Lys	Val	Leu	Thr	Glu	Ile	Ile	Ala	Ser	Arg	Thr	Pro	Glu	Glu	
613																		
617 6lu Asp Asp Asp Val Val Gly Asp Thr Ser Gly Tyr Tyr Gln Arg Met Leu 160 160 145	611	Leu	Arg	Ala	Ile	Lys	Gln	Val	Tyr	Glu	Glu	Glu	\mathtt{Tyr}	Gly	Ser	Ser	Leu	
619																		
623 Val Val Leu Leu Gln Ala Asn Arg Asp Pro Asp Ala Gly Ile Asp Glu 175 629 Ala Gln Val Glu Gln Asp Asp Ala Gln Ala Leu Phe Gln Ala Gly Glu Leu 180 631 635 Lys Trp Gly Thr Asp Glu Glu Lys Phe Ile Thr Ile Phe Gly Thr Arg 200 641 Ser Val Ser His Leu Arg Lys Val Phe Asp Lys Tyr Met Thr Ile Ser 210 643 644 Gly Phe Gln Ile Glu Glu Thr Ile Asp Arg Glu Thr Ser Gly Asn Leu 230 655 Gly Phe Gln Ile Glu Glu Thr Ile Asp Arg Glu Thr Ser Gly Asn Leu 240 656 Gly Phe Gln Ile Leu Arg Val Val Val Lys Ser Ile Arg Ser Ile Pro Ala 255 657 Gly Fyr Leu Ala Glu Thr Leu Tyr Tyr Ala Met Lys Gly Ala Gly Thr Asp 260 658 Asp His Thr Leu Ile Arg Val Met Val Ser Arg Ser Glu Ile Asp Leu 270 667 Asp Asn Ile Arg Lys Gly Asp Thr Ser Gly Asp Tyr Lys Lys Ala Leu Leu Grow 290 678 Ser Met Ile Lys Gly Asp Thr Ser Gly Asp Tyr Lys Lys Ala Leu Leu Grow 310 679 Ser Met Ile Lys Gly Asp Thr Ser Gly Asp Tyr Lys Lys Ala Leu Leu Grow 320 689 Ser Ser Lys Lys Gly Ala Leu Leu Grow 320 689 Ser Met Ile Lys Gly Asp Thr Ser Gly Asp Tyr Lys Lys Ala Leu Leu Grow 320 689 Ser Met Ile Lys Gly Asp Thr Ser Gly Asp Tyr Lys Lys Ala Leu Leu Grow 320 689 Ser Met Ile Lys Gly Asp Thr Ser Gly Asp Tyr Lys Lys Ala Leu Leu Grow 320 689 Ser Met Ile Lys Gly Asp Thr Ser Gly Asp Tyr Lys Lys Ala Leu Leu Grow 320 689 Ser Met Ile Lys Gly Asp Thr Ser Gly Asp Tyr Lys Lys Ala Leu Leu Grow 320 689 Ser Met Ile Lys Gly Asp Thr Ser Gly Asp Tyr Lys Lys Ala Leu Leu Grow 320 689 Ser Met Ile Lys Gly Asp Tyr Lys Lys Asn Ser Tyr Lys Lys Ala Leu Leu Grow 320 680 Ser Met Ile Lys Gly Asp Tyr Lys Lys Ala Leu Leu Grow 320 680 Ser Met Ile Lys Gly Asp Tyr Lys Lys Ala Leu Leu Grow 320 680 Ser Met Ile Lys Gly Asp Tyr Lys Lys Ala Leu Leu Grow 320 680 Ser Met Ile Lys Gly Asp Tyr Lys Lys Ala Lys Lys Ala Lys Lys Ala Cyr Lys Ala Cy			Asp	Asp	Val	Val	Gly	Asp	Thr	Ser	Gly	Tyr	\mathtt{Tyr}	Gln	Arg	Met	Leu	
625																		
629 Ala Gln Val Glu Gln Asp Ala Gln Ala Leu Phe Gln Ala Gly Glu Leu 180		Val	Val	Leu	Leu	Gln	Ala	Asn	Arg	Asp	Pro	Asp	Ala	Gly	Ile	Asp	Glu	
631 Lys Trp Gly Thr Asp Glu Glu Lys Phe Ile Thr Ile Phe Gly Thr Arg 637	625					165					170					175		
635 Lys Trp Gly Thr Asp Glu Glu Lys Phe Ile Thr Ile Phe Gly Thr Arg 637		Ala	Gln	Val		Gln	Asp	Ala	Gln		Leu	Phe	Gln	Ala	_	Glu	Leu	
637																		
641 Ser Val Ser His Leu Arg Lys Val Phe Asp Lys Tyr Met Thr Ile Ser 210		Lys	Trp	_	Thr	Asp	Glu	Glu	_	Phe	Ile	Thr	Ile		Gly	Thr	Arg	
643																		
647 Gly Phe Gln Ile Glu Glu Thr Ile Asp Arg Glu Thr Ser Gly Asn Leu 230	641	Ser		Ser	His	Leu	Arg	_	Val	Phe	Asp	Lys	_	Met	Thr	Ile	Ser	
649 225										•								
653 Glu Gln Leu Leu Leu Ala Val Val Lys Ser Ile Arg Ser Ile Pro Ala 255 659 Tyr Leu Ala Glu Thr Leu Tyr Tyr Ala Met Lys Gly Ala Gly Thr Asp 266 661		_	Phe	Gln	Ile	Glu		Thr	Ile	Asp	Arg	Glu	Thr	Ser	Gly	Asn	Leu	
655																		
659 Tyr Leu Ala Glu Thr Leu Tyr Tyr Ala Met Lys Gly Ala Gly Thr Asp 661		Glu	Gln	Leu	Leu		Ala	Val	Val	Lys		Ile	Arg	Ser	Ile		Ala	
661																		
665 Asp His Thr Leu Ile Arg Val Met Val Ser Arg Ser Glu Ile Asp Leu 280		Tyr	Leu	Ala		Thr	Leu	Tyr	Tyr		Met	Lys	Gly	Ala		Thr	Asp	
667																		
671 Phe Asn Ile Arg Lys Glu Phe Arg Lys Asn Phe Ala Thr Ser Leu Tyr 673 290 295 300 677 Ser Met Ile Lys Gly Asp Thr Ser Gly Asp Tyr Lys Lys Ala Leu Leu 679 305 310 320		Asp	His		Leu	Ile	Arg	Val		Val	Ser	Arg	Ser		Ile	Asp	Leu	
673 290 295 300 677 Ser Met Ile Lys Gly Asp Thr Ser Gly Asp Tyr Lys Lys Ala Leu Leu 679 305 310 315 320																		
677 Ser Met Ile Lys Gly Asp Thr Ser Gly Asp Tyr Lys Lys Ala Leu Leu 679 305 310 315 320		Phe		Ile	Arg	Lys	Glu		Arg	Lys	Asn	Phe		Thr	Ser	Leu	Tyr	
679 305 310 315 320																		
			Met	Ile	Lys	Gly		Thr	Ser	Gly	Asp		Lys	Lys	Ala	Leu		
683 Leu Leu Ser Gly Glu Asp Asp												315					320	
	683	Leu	Leu	Ser	Gly	Glu	Asp	Asp										

VERIFICATION SUMMARY

DATE: 10/19/2001

PATENT APPLICATION: US/09/970,969

TIME: 10:33:28

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\10192001\1970969.raw

L:17 M:270 C: Current Application Number differs, Replaced Application Number

L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date